In regard to application # 08 986,606; Dear Avis M. Deverport, Primary granine #5 Deals 1024; Dan writing to rebet the criticism that resulted en your rejection of my claims: 1. The time frames for thesportent application relative to previous patents and petentapplicutions are on follows: U.S. Patent 5, 298,604, Mu 29'84 ded with the protein N-tormind amino acid sequence & Redge and Sloans, cytokine Jon 1996 - nonapeptide - Notermend sequence of ANU Prossessesson 10 Z of ants tumor actionly of the cytokene C Slvane - US patent application on pharmacologically active antitumor activity of the antitumor activity of the managestide activities by SDS. appliation 08/641,905 beled May 2, 1996, this application is not being neviewed; see

Aloano 408/700,606 Keney 12/8/97 enclosed letter and: = enclosed reprint Sloave and Davis Jan 1796 Tumo (cergeting (1996) 2, 322-326 the Sloane potent application of 12/08/97 # 08/986,606 deals with the pharmaeologically ants turn activity of the 16 amero acid N-terminal pertido-This data has not been pullished the 50% activity of the 16 amus acid peptids is a great advonce overthe 10% activity of the monapey ticle Prior ant con notanticipate the very large in crease in planmoculogenly antitumor activity of the 16 amino acid pentide over that of the 9 ameris acid partido. Itisposalle that there ould be no increase in activity. Thus the one year priis date does outapply

floane - 08/986,600 filing 12/08/97 the determination of the N-terminal amino and sequence was thoroughly desembed in publication Ridgeard Sloans, Cytokers (1996) 8, pp.15 and documented in U.S. Patent #5,298,604 date Mar 29, 1994 the syntheses of amino acid sequences are vontinely performed and is well known throughout the scientific Community, thereare many chemical companies that employ the expertise to provide sefrethete peptedes world wide. We have used one such com pany, Research Genetics of Hentsouthe, alaboma. the use of the 16 amero acid populate is well delineated in claim 1. "The use of the 164-

PY Sloon #08/986, 606 filing date 12/08/97 representing the partial N-terminal ameno sequenced The antimerplastic proteir (& NVD) åsæpharmælegteally antitumor agent which hells only human tumo cello (using the human breast tumor cell line asa model)" We century con delete the painthoses We had previously determined that a very diverso number of human tumor colls were helled by the cotohup (ANUR) in without and in OVIVO. I - D P 1 a, Sloare et al Brochamica). (1986) 234) PP355-362, and Slovere and Davis (1996) Tumor Targeting 2, 322-326.

Ploone 08/986,606 filing date 12/08/97 We previously determined that a diverse number of human tunce Cell lives were specifically killed by ANUP which included, breast, lung, bladder, servix, melan oma, and panerers. Includ Sloare and Davis Humo Torgeting (1996) 2322 826: showed that the protein was active in VIVO as a pharmacologically active antitumor protein the protein ANUP coursel the regression of both cervical tumor cells and larynged tumor cell (each of human oregin uhan injected in mude mice. Since the 16 amino Nterminal exitope of ANUP representation active artitumor portain of ANUP

08/986,600) filerg dote 12/6/97 p6 than the use of the pertide by parenteral injection as used in studies with the protein would La indicated. Includ U.S. Patent usual on the antinoplastic protein (ANUP) - U.S. Parters #5,298,604 isrued mon 29, 1994 has recorded such a uso sel patent column 4 unde "Biological Properties of ANUP" 11 this antitums chemotheraparticaged to treat human neoplastio diseaso. Li view of of potential use of ANUPIN Concertherapy is justifiedly thefollowing a propos mentagie to kennacels; LA specifically inhibits only) human cancerdel lines MUP Cours regression

Cloore 08/986,606; filing dato 12/8/87 of human tumor cell lives implanted in mud, mice, " flus claims pand 3 for the use of the Aranuno and Pertilo does indeed set fath steps in thouse of the pertale ers an artistumor agent By parenteral injections as shown in the U.S. Patente: " of Sloons \$5,296,604 date Mar 29,1894 and publication of Sloans and Davis Termor targeting (1996) 2,322-326the potential use of the L-16 amenacid peptade is clearly indicated as shown by above references and clear demonstration of the effect

Slome 08/986,604 Blue auto 12/97 p8 of human tumor cells complanted ingetion. Claim 3 relates to the action two of the 16 amino acid pay trob as clearly delireated in the "Description of the Preferred Embodiment." also similar to the present application, equipment activity was noted between the new Compoundand The naturally-Occurring Compounds. In his opinion judge Rich states!

Sloane 08/968,004-filing date 12/8/97 1) where no particular utility is recited for a Compound, evidence of any utility is Cedequate Cuting Blicker Trevez 112 USPQ 472; 21 tests evidencing pharmaco. logical activity may manifesta practical detelter even though they may not extablish a specific therapeutic 3) Topice tes crucial to provide researchers with an incentive to disclose pharmacological activity in as many compounds as possibly we conclude that adequate proof of any such activity constitutes

Ilsans 08/986, 604-filingdett 12/8/97 a showing of practical utility and 4) "the controlling point is...
evidence of pharmacological
activity." If lan unclear at ony point please coll me at 901-754-7848

•

Sincerely Mathan Sloone